

2002 ANNUAL ANALYSIS OF CEDAR & TOLT WATER SUPPLIES

Samples Collected: APRIL 30, 2002

Cedar Distribution = South of the ship canal & lower elevations North of ship canal.

Tolt Distribution = Higher elevations North of the ship canal.

Water Quality Parameter	State Dept. of Health Maximum Contaminant Level	CEDAR	TOLT	Minimum Reporting Level
Primary Standards *	MCL			
Antimony	6 ug/L	ND	ND	3
Arsenic	50 ug/L	ND	ND	1.0
Asbestos \$	7 million fibers/L (>10um long)	ND	ND	0.2
Barium	2000 ug/L	ND	ND	5.0
Beryllium	4 ug/L	ND	ND	2.0
Cadmium	5 ug/L	ND	ND	0.2
Cyanide	200 ug/L	ND	ND	5.0
Chromium	100 ug/L	ND	ND	1.0
Fluoride	4 mg/L	0.92	0.98	0.10
Nickel	100 ug/L	ND	ND	10.0
Mercury	2 ug/L	ND	ND	0.1
Nitrate-Nitrogen	10 mg/L	0.022	0.120	0.010
Nitrite-Nitrogen	1 mg/L	ND	ND	0.002
Selenium	50 ug/L	ND	ND	3.0
Thallium	2 ug/L	ND	ND	2.0
Trihalomethanes, Total~	100 ug/L	29.3	28.1	2.0
Turbidity	5 NTU for Cedar/ 0.30 NTU for Tolt	0.56	0.06	0.05
	Residential Action Level			
Copper	1300 ug/L @	263	969	1.0
Lead	15 ug/L @	11.1	30.9	1.0
Secondary Standards **	MCL			
Aluminum	50 - 200 ug/L	34.7	40.3	3.0
Chloride	250 mg/L	3.56	2.17	0.5
Color	15 std. units	ND	ND	5.0
Copper ^	1000 ug/L	1.2	ND	1.0
Fluoride	2 mg/L	0.92	0.98	0.10
Iron	0.3 mg/L	0.03	0.01	0.004
Manganese	50 ug/L	3	ND	1.0
pH, range ++ ^	6.5 - 8.5 pH units	8.03 - 8.64	7.31 - 8.55	NA
Silver	100 ug/L	ND	ND	1.0
Solids, Total Dissolved	500 mg/L	45.0	38.0	5.0
Specific Conductance	700 umhos/cm	60.6	49.5	5.0
Sulfate	250 mg/L	1.10	1.20	0.5
Zinc	5 mg/L	ND	ND	0.01
Other Parameters ^	Units			
Alkalinity, Total (as CaCO3)	mg/L	16.6	16.1	2.0
Calcium, (as CaCO3)	mg/L	20.3	22.7	2.0
Hardness, (as CaCO3)	mg/L	24.2	24.3	2.0
Hardness, (as CaCO3)	grains/gal.	1.40	1.40	0.1
Magnesium	mg/L	0.94	0.39	0.02
Oxygen, Dissolved	mg/L	12.0	20.0	0.5
Phosphorus, Total	mg/L	0.004	0.002	0.002
Potassium	mg/L	0.25	0.15	0.020
Silica, Reactive	mg/L	6.90	5.50	1.0
Sodium	mg/L	2.22	0.97	0.02
Temperature, annual range	deg. C.	5 - 20	5 - 20	NA
Total Organic Carbon (raw water)	mg/L	0.98	1.27	0.20

Primary and Secondary Standards were measured at the Intake to the distribution system after treatment.

@ Measured at 90th percentile of overnight standing residential samples from homes with copper pipes and lead solder-1997
Source waters were ND for lead.

* Health stds.: Supplier subject to public notification.

^ Representative of the Seattle distribution system

++ January-May 2002, 10-90th percentile

** Aesthetic stds.: Supplier not subject to public notification

\$ Test results 12/15/95 - analysis not required in 2002

ND = Not Detected at or above the Minimum Reporting Level

1 ppm = 1 mg/L = 1000 ug/L

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